

REMARKS

With respect to the double-patenting rejection set forth in paragraph 1 of page 2, a Terminal Disclaimer over U.S. application '331 is attached.

With respect to the double-patenting rejection in paragraph 2 on page 3, a Terminal Disclaimer over U.S. patent 7,327,821 is attached.

With respect to paragraph 3, on page 4 of the Office Action, the present application and U.S. patent 7,327,821 were, at the time the present application was made, owned by Mitsubishi Heavy Industries, Ltd. Therefore, under § 103(c) the rejection is overcome.

With respect to the rejection set forth in paragraph 4 on page 5 of the Office Action, based on Hayashi in view of Anayama, Hayahi is silent about the incorporation of the density increasing agents into the neutron shielding material composition. This density information has been added to the independent claims in this amendment. Support for the amendment can be found in the present application in paragraphs 22, 59, and 61.

Anayama is also silent about how to adjust the density of the composition in a system containing both the density increasing agents and the refractory material. Anayama only discloses in the fifth paragraph on page 3, "The higher the density of an inorganic material is, the greater the shielding effect thereof on gamma- and X-rays is". As shown in the table of working examples, the molded articles nos. 2-7, which contain high-density inorganic material, have a density from 2 g/cm³ to 4 g/cm³, which is much higher than that of the molded article no. 1 (1.35 g/cm³) made from the base resin *i.e.*, epoxy resin alone.


In contrast, the claimed composition maintains the density of the base resin even though the composition contains a density increasing agent having higher density than that of the refractory material. Pursuant to claim 1, replacement of the refractory material by the density increasing agent allows incorporation of the resin component having high hydrogen content while keeping the density value.

Support for new claim 20 can be found in paragraphs 61 and 70. Support for new claim 21 can be found in paragraph 54.

Respectfully submitted,

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